

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2005/001419

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ERALI M ET AL: "EVALUATION OF ELECTRONIC MICROARRAYS FOR GENOTYPING FACTOR V, FACTOR II, AND MTHFR" CLINICAL CHEMISTRY, AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY. WINSTON, US, vol. 49, no. 5, May 2003 (2003-05), pages 732-739, XP001156163 ISSN: 0009-9147 abstract</p> <p>-----</p> <p>-/-</p>	<p>1-7, 10-12, 15-18, 22, 26-35</p>

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*&\* document member of the same patent family

Date of the actual completion of the International search	Date of mailing of the International search report
13 May 2005	06/06/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Authorized officer  Costa Roldán, N

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	POLLAK E S ET AL: "MICROARRAY-BASED GENETIC ANALYSES FOR STUDYING SUSCEPTIBILITY TO ARTERIAL AND VENOUS THROMBOTIC DISORDERS" ITALIAN HEART JOURNAL, CEPI, CENTRO EDITORIALE PUBBLICITARIO ITALIANO, ROME, IT, vol. 2, no. 8, August 2001 (2001-08), pages 568-572, XP009021015 ISSN: 1129-471X abstract -----	1-7, 10-12, 15-18, 22,26-35
X	ZHONG XIAO-BO ET AL: "Single-nucleotide polymorphism genotyping on optical thin-film biosensor chips." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. 30 SEP 2003, vol. 100, no. 20, 30 September 2003 (2003-09-30), pages 11559-11564, XP002328069 ISSN: 0027-8424 abstract -----	1-7, 10-12, 15-18, 22,26-35
X	GONZÁLEZ-ORDÓN&TILD ET AL: "Genetic determinants of the venous thromboembolism" QUIMICA CLINICA 2003 SPAIN, vol. 22, no. 5, 2003, pages 367-381, XP001205733 ISSN: 1139-2436 abstract; tables 1-3 page 376 -----	1-14, 18-21
X	BUCHHOLZ TINA ET AL: "Inherited thrombophilia: Impact on human reproduction." AMERICAN JOURNAL OF REPRODUCTIVE IMMUNOLOGY, vol. 50, no. 1, July 2003 (2003-07), pages 20-32, XP009047496 ISSN: 1046-7408 page 20; table 1 abstract -----	1-14, 18-21
X	US 2003/099958 A1 (MCCARTHY JEANETTE) 29 May 2003 (2003-05-29) abstract; claims 8,26,28,30,32,34,37-43,53-56,65 -----	1-14, 18-25
		-/-

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FRANCO R F ET AL: "Genetic variations of the hemostatic system as risk factors for venous and arterial thrombotic disease." CURRENT GENOMICS, vol. 4, no. 4, May 2003 (2003-05), pages 309-336, XP009047618 ISSN: 1389-2029 abstract -----	1-14
X	LI Y-H ET AL: "Genetic risk factors of vascular thrombotic disease in Taiwan" ACTA CARDIOLOGICA SINICA 2000 TAIWAN, vol. 16, no. 4, 2000, pages 197-208, XP009047504 ISSN: 1011-6842 abstract -----	1-14
P,X	DE 102 37 073 A1 (OGHAM GMBH) 19 February 2004 (2004-02-19) abstract; claims 1-13 -----	1-14, 18-21

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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
**Rule 39.1(iv) PCT – Method for treatment of the human or animal body by therapy (claims 1 to 25 and 29)**
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 2003099958	A1 29-05-2003	WO 03020118	A2	13-03-2003
DE 10237073	A1 19-02-2004	EP 1398388	A2	17-03-2004